

Recombinant Human CYP3A5

Cat. No. CYP3A5-26690TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cytochrome P450 3A5 with N terminal proprietary tag; Predicted MWt 80.96 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	502 amino acids
Description	This gene, CYP3A5, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. The enzyme metabolizes drugs such as nifedipine and cyclosporine as well as the steroid hormones testosterone, progesterone and androstenedione. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. This cluster includes a pseudogene, CYP3A5P1, which is very similar to CYP3A5. This similarity has caused some difficulty in determining whether cloned sequences represent the gene or the pseudogene. Multiple alternatively spliced transcript variants have been identified for this gene.
Molecular Weight	80.960kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MDLIPNLAVETWLLAVSLVLLYLYGTRTHGLFKRLGIPG PTPLPLLGNVLSYRQGLW KFDTECYKKYGKMWGTYEGQLP VLAITDPDVIRTVLVKECYSVFTNRRSLGPVGF KSAISL AEDEEWKRIRSLLSPTFTSGKLEMFPIAQYGDVLRNL RREAEGKGPVTL KDIFGAYSMDVITGTSFGVNIDSLNNPQ DPFVESTKKFLKFGFLDPLFLSIILFPFLTPV FEALNVSL FPKDTINFLSKSVNRMKKSRLNDKQKHRLDFLQLMIDSN SKETESHK ALSDLELAAQSIIFIFAGYETTSSVLSFTLYE LATHPDVQQKLQKEIDAVLPNKAPPTY DAVVQMEYLDMMV NETLRLFPVAIRLERTCKKDVEINGVFIPKGSMMVVIPTYA LHHD PKYWTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRN CIGMRFALMNMKLALIRVLQN FSFKPKETQIPLKLDQTG LLQPEKPIVLKVDSRDGTLG
Sequence Similarities	Belongs to the cytochrome P450 family.

GENE INFORMATION

Gene Name	CYP3A5 cytochrome P450, family 3, subfamily A, polypeptide 5 [Homo sapiens]
Official Symbol	CYP3A5
Synonyms	CYP3A5; cytochrome P450, family 3, subfamily A, polypeptide 5; cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 5; cytochrome P450 3A5; CP35; P450PCN3; PCN3;
Gene ID	1577

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mRNA Refseq	NM_000777
Protein Refseq	NP_000768
MIM	605325
Uniprot ID	P20815
Chromosome Location	7q21.1
Pathway	Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Drug metabolism - other enzymes, organism-specific biosystem;
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity;